

Title (en)

A method for manufacturing of resin-coated stone slabs

Title (de)

Verfahren zur Herstellung von harzbeschichteten Steinplatten

Title (fr)

Procédé de fabrication de dalles en pierre recouvertes de résine

Publication

EP 2662348 A3 20160525 (EN)

Application

EP 12181838 A 20120827

Priority

PL 39906712 A 20120506

Abstract (en)

[origin: EP2662348A2] A method for manufacturing of resin-coated stone slabs, comprising applying a resin composition on an exposed surface of a large-scale stone slab cut from a stone block, and next submitting it to thermal treatment to harden the resin, and machining the large-scale stone slab to a desired shape and size. The resin composition is prepared by mixing a polyester resin in a temperature between 35°C and 45°C with a colloidal dispersion of silver nanoparticles of a size from 3nm to 8nm and concentration of at least 1% in hexane, allowing hexane to evaporate and cooling the mixture to a temperature of about 20°C, and next adding a polyester resin hardener to the mixture, wherein the amount of the colloidal dispersion of silver nanoparticles is selected so as to obtain a mass concentration of silver in the resin composition in the amount of 50 ppm to 100 ppm.

IPC 8 full level

C04B 41/48 (2006.01)

CPC (source: EP)

C04B 41/009 (2013.01); **C04B 41/4826** (2013.01); **C04B 2111/2092** (2013.01)

Citation (search report)

[A] WO 2009130546 A1 20091029 - IND CHEM ITALIA S R L [IT], et al

Cited by

CN106272990A; DE102016119108A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2662348 A2 20131113; **EP 2662348 A3 20160525**; **EP 2662348 B1 20170301**; PL 218580 B1 20141231; PL 399067 A1 20131112

DOCDB simple family (application)

EP 12181838 A 20120827; PL 39906712 A 20120506